

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2762	((417/53) or (417/44.1) or (417/413.1)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/01 09:38
S2	2762	((417/53) or (417/44.1) or (417/413.1)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/01 13:15
S3	369605	(electro\$magnetic)	US-PGPUB; USPAT	OR	ON	2008/04/01 13:16
S4	321	S2 and S3	US-PGPUB; USPAT	OR	ON	2008/04/01 13:17
S5	271	S4 and pump	US-PGPUB; USPAT	OR	ON	2008/04/01 13:17
S7	158	S5 and (plunger or piston or actuator)	US-PGPUB; USPAT	OR	ON	2008/04/01 13:18
S8	115	S7 and magnet\$6	US-PGPUB; USPAT	OR	ON	2008/04/01 13:18
S9	64	S8 and voltage	US-PGPUB; USPAT	OR	ON	2008/04/01 13:22
S12	14557	((electric or electronic or voltage or current) near2 control) with pump	US-PGPUB; USPAT	OR	ON	2008/04/01 14:48
S13	1060610	(magnetic\$5 or electro \$magnetic\$5)	US-PGPUB; USPAT	OR	ON	2008/04/01 14:50
S14	805	S12 same S13	US-PGPUB; USPAT	OR	ON	2008/04/01 14:50
S15	16	S14 same reciproc\$4	US-PGPUB; USPAT	OR	ON	2008/04/01 14:51
S16	3	S14 same ((voltage or current) adj pulse)	US-PGPUB; USPAT	OR	ON	2008/04/01 14:58
S19	2	method near2 driving near (electro\$magnetic \$4 near2 pump)	US-PGPUB; USPAT	OR	ON	2008/04/02 08:11
S20	2609	(electromagnetic\$4 near2 pump)	US-PGPUB; USPAT	OR	ON	2008/04/02 08:11
S21	154	(electromagnetic\$4 near2 pump) with method	US-PGPUB; USPAT	OR	ON	2008/04/02 08:12
S22	953	pulse near2 voltage same (sine or sine \$wave)	US-PGPUB; USPAT	OR	ON	2008/04/02 08:30
S23	6	S22 same pump	US-PGPUB; USPAT	OR	ON	2008/04/02 08:30
S24	112	S22 same motor	US-PGPUB; USPAT	OR	ON	2008/04/02 08:35

S25	353	pulse near2 voltage same (offset adj voltage)	US-PGPUB; USPAT	OR	ON	2008/04/02 13:05
S27	21	S25 and (electromagnetic)	US-PGPUB; USPAT	OR	ON	2008/04/02 13:08
S28	150	(electromagnetic\$4 near2 pump) with method	EPO; JPO; DERWENT	OR	ON	2008/04/02 14:36
S29	31	(electromagnetic\$4 near2 pump) with method and pulse	EPO; JPO; DERWENT	OR	ON	2008/04/02 14:39
S31	15	(electromagnetic\$4 near2 motor) with method and pulse	EPO; JPO; DERWENT	OR	ON	2008/04/02 14:51
S32	32307	pulse adj width adj modulation	US-PGPUB; USPAT	OR	ON	2008/04/11 14:12
S33	741	S32 same (pump)	US-PGPUB; USPAT	OR	ON	2008/04/11 14:12
S34	59	S33 and (sine or sine wave)	US-PGPUB; USPAT	OR	ON	2008/04/11 14:14
S36	1234	((417/48) or (417/49) or (417/50) or (417/51)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/04/23 16:34
S37	50	S36 and pulse	US-PGPUB; USPAT	OR	ON	2008/04/23 16:35
S38	12	S36 and (sine or sine wave)	US-PGPUB; USPAT	OR	ON	2008/04/23 16:51
S39	35	S36 and reciprocating	US-PGPUB; USPAT	OR	ON	2008/04/23 16:56
S40	25	(S36 and reciprocating) not S37 not S38	US-PGPUB; USPAT	OR	ON	2008/04/23 16:56
S41	13	piston same (offset adj voltage)	US-PGPUB; USPAT	OR	ON	2008/04/23 17:01
S42	2	reciprocating same (offset adj voltage)	US-PGPUB; USPAT	OR	ON	2008/04/23 17:06
S43	297	offset with (pulse near voltage)	US-PGPUB; USPAT	OR	ON	2008/04/28 16:22
S44	3	offset with (pulse near voltage) same pump	US-PGPUB; USPAT	OR	ON	2008/04/28 16:26
S45	9	offset with (pulse near voltage) same motor	US-PGPUB; USPAT	OR	ON	2008/04/28 16:27
S46	530	(electromagnetic\$4 near pump) and (voltage)	US-PGPUB; USPAT	OR	ON	2008/04/28 16:56
S47	16	(electromagnetic\$4 near pump) and (voltage adj pulse)	US-PGPUB; USPAT	OR	ON	2008/04/28 16:57

S48	29	(electro\$magnetic\$4 near pump) and (current adj pulse)	US-PGPUB; USPAT	OR	ON	2008/04/28 17:20
S49	25	S48 not S47	US-PGPUB; USPAT	OR	ON	2008/04/28 17:20
S50	1976	(pulse adj generator) same pump	US-PGPUB; USPAT	OR	ON	2008/04/29 09:36
S51	3	(pulse adj generator) same (reciprocating adj pump)	US-PGPUB; USPAT	OR	ON	2008/04/29 09:36
S52	0	(pulse\$width adj generator) same (pump)	US-PGPUB; USPAT	OR	ON	2008/04/29 09:39
S53	7	(pulse adj width adj generator) same (pump)	US-PGPUB; USPAT	OR	ON	2008/04/29 09:39

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